INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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PATENT & TRACELLE	Substitu	ite for form 1449A/PTC				mplet if Known
ENT & TRACT					Application Number	09/580,156
	INF	ORMATION	DI	SCLOSURE	Filing Date	05-30-2000
	STA	TEMENT B	Y	APPLICANT	First Named Inventor	Sandberg, et al.
	"				Group Art Unit	1631
		(use as many she	ets a	s necessary)	Examiner Name	Borin, M
	Sheet	1	of	4	Attorney Docket Number	25812-5-CIP

				U.S. PATENT DOC	JMENTS	
Examiner Initials'	Cite No.1	U.S. Patent Number	Kind Code ³	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevent Passages or Relevant
MAS	AA	4,327,078	(if known)	Charlet et. al.	04/27/1982	Figures Appear
1-1-2	AB	4,816,513		Bridgham et al.	03/28/1989	
	AC	4.668,476		Bridgham et al.	05/26/1987	
	AD	4,983,382		Wilmott et al.	01/08/1991	
	AE	5,140,043		Darr et al.	08/18/1992	
	AF	5,122,536		Perricone	06/16/1992	
	AG	4,891,227		Thaman et al.	01/02/1990	
	AH	4,891,228		Thaman et al.	01/02/1009	
	Al	4,603,146		Kligman	07/29/1986	
	AJ	4,877,805		Kligman	10/31/1989	
	AK	4,474,763		Lubowe	10/02/1984	
	AL	4.591.501		Cioca	05/27/1986	
	AM	4.659.740		Usher	04/21/1987	<u> </u>
	AN	4.963.656		Mitani	10/16/1990	
	AO	5.017.691		Lee	05/21/1991	
	AP	5.079.003		Scaffidi et al.	01/07/1992	
	AO	5.223.420		Rabaud et al.	06/29/1993	
	AR	5.523.291		Janzen et al.	06/04/1996	
1	AS	5.648.209		Avrameas et al.	07/15/1997	
MOS	AT	5.736.537		Gubernick et al.	04/07/1998	

				FOR	EIGN PATENT DOCUMENT	S		
Examiner Initials*	Cite No.1	Office ³	Foreign Patent Do Number ⁴			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T4
MAS	AU	JР	08/225.594		Yamauchi et al.	03/09/1993		
	ΑV	wo	94/08588 A1		Conservatoire National	04/28/1994		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of Sheet 2

C mplet if Known					
Application Number	09/580,156				
Filing Date	05-30-2000				
First Named Inventor	Sandberg, et al.				
Group Art Unit	1631				
Examiner Name	Borin, M				
Attorney Docket Number	25812-5-CIP				

				U.S. PATENT DOCU	JMENTS	
Examiner Initials	Cite No.1	U.S. Patent Number	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Mes	BA	6,025,347		Gubernick et al.	02/15/2000	
mis	BB	5,945,409		Crandall et al.	08/31/1999	
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CALR IN		Application Number	09/580,156
	INFORMATION DISCLOSURE	Filing Date	05-30-2000
	STATEMENT BY APPLICANT	First Named Inventor	Sandberg et al.
	OIAIEMENT DI ALL EIOANT	Group Art Unit	1631

Examiner Name Borin, M (use as many sheets as necessary) **Attorney Docket Number** 25812-5-CIP Sheet 3 of

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_
Cita No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	72
ВА	Heiber, A.D. et al., Detection of Elastin in the Human Fetal Membranes: Proposed Molecular Basis for Elasticity; Placenta; vol. 18; pp. 301-312; 1997.	
ВВ	Gibson, M.A. et al., Further Characterization o fProteins Associated with Elastic Fibre Microfibrils Including the Molecular Cloning of MAGP-2 (MP25); The Journal of Biological Chemistry; vol. 271, No. 2 pp. 1096-1103; Jan. 12, 1996.	
вс	Price, L.S.C. et al., Valyl-Alanyl-Prolyl-Glycine (VAPG) Sreves as a Quantatative Marker for Human Elastins; Matrix; vol. 13 pp. 307-311; 1993.	
BD	Blankenship, J.W. et al., Oxysterol Incorporation Into Rat Aorta Resulting in Elastin Compositional Changes; Lipids; vol. 26, No. 5; pp. 381-384; 1991.	1
BE	Sandberg, L.B. et al., Quantitation of Elastin in Tissues and Culture: Problems Related to the Accurate Measurement of Small Amounts of Elastin With Special Emphasis on the Rat; Connective Tissue Research; vol. 25, pp. 139-148; 1990.	-
BF	Sandberg, L.B. et al., Structural Guidelines for an Acceptable Elastin an Tropoelastin: Application Towards Quantitation of Elastin Accumulation in Tissue Culture; Elastin: Chemical and Biological Aspects (Reprinted); pp. 22-24; 1009.	ŀ
BG	Sandberg, L.B. et al., Quantitation of Elastin Through Measurement of Its Pentapeptide Content; Biochemical and Biophysical Research Communications; vol. 136, No.2 pp. 672-678; Apr. 29, 1986.	,
вн	Database CaPlus, AN 108:167920. Bayer et al. Z. Naturforsch., C: Biosci, 42(4), 455-60), Apr. 1987.	
BI	Hunninghake et al. Science, 212, 925-927, May 1981.	
вј	Database Caplus, DN 127:219499. Morrelli et al. J. Pept. Res., 49 (6), 429-499, Jun. 1997.	
ВК	Database Caplus, DN 122:102414. Bisaccia et al. Int, J. Pept. Res, 44, 332-341, Apr. 1994.	
	BA BB BC BD BE BG BH BI	item (book, magazine, journal, seriel, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. BA Heiber, A.D. et al., Detection of Elastin in the Human Fetal Membranes: Proposed Molecular Basis for Elasticity; Placenta; vol. 18; pp. 301-312; 1997. BG Gibson, M.A. et al., Further Characterization o Proteins Associated with Elastic Fibre Microfibrils Including the Molecular Cloning of MAGP-2 (MP25); The Journal of Biological Chemistry; vol. 271, No. 2 pp. 1096-1103; Jan. 12, 1996. BC Price, L.S.C. et al., Valyl-Alanyl-Prolyl-Glycine (VAPG) Sreves as a Quantatative Marker for Human Elastins; Matrix; vol. 13 pp. 307-311; 1993. BD Blankership, J.W. et al., Oxysterol Incorporation Into Rat Aorta Resulting in Elastin Compositional Changes; Lipids; vol. 26, No. 5; pp. 381-384; 1991. BE Sandberg, L.B. et al., Quantitation of Elastin in Tissues and Culture: Problems Related to the Accurate Measurement of Small Amounts of Elastin With Special Emphasis on the Rat; Connective Tissue Research; vol. 25, pp. 139-148; 1990. BF Quantitation of Elastin Accumulation in Tissue Culture; Elastin: Chemical and Biological Aspects (Reprinted); pp. 22-24; 1009. BG Bandberg, L.B. et al., Quantitation of Elastin Through Measurement of Its Pentapeptide Content; Biochemical and Biophysical Research Communications; vol. 136, No.2 pp. 672-678; Apr. 29, 1986. BH Database Caphus, NN 108:167920. Bayer et al. Z. Naturforsch., C: Biosci, 42(4), 455-60), Apr. 1987. BI Database Caphus, DN 127:219499. Morrelli et al. J. Pept. Res., 49 (6), 429-499, Jun. 1997.

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CA WELL		Application Number	09/580,156

Examiner

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Application Number	09/580,156				
Filing Date	05-30-2000				
First Named Inventor	Sandberg, et al.				
Group Art Unit	1631				
Examiner Name	Borin, M				

Attorney Docket Number | 25812-5-CIP

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	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
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Mus		CA	Database CAPLUS, AN 115:65185, DOI, R. et al., Effects of synthetic human pancreastatin on pancreatic secretion an dblood flow in rats and dogs. Peptides. 1991, vol. 12(3), pages 449-502.					
		СВ	Database CAPLUS, AN 107:54378, RAJU, K. et al., Primary sturcture of bovine elastin a, b, and c deduced from the sequences of cDNA clones. J. Biol. Chem., 1987, 262(12), pages 5755-5762.					
		СC	Database CAPULS, AN 107:191131, CHARTEN et al. QSAR for peptide bioactivities. Further studies. Pharmacochem. Libr. 1987, vol. 10, pages 285-290.					
		CD	Database CAPULS, 129:187343, LOGRANO, M. et al., Identification of elastin peptides with vasorelaxant activity on rat thoracic aorta. Int. J. Biochem. Cell Biol., 1998, vol. 30 pages 497-503.					
M	9	CE	FERRANCE, J., Examiner's first report on patent application no. 30854/99 by Connective Tissue Imagineering LLC, 2001.					
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Date

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First Named Inventor	Sandberg, et al.				
Group Art Unit	1631				
Examiner Name	Borin				
Attorney Docket Number	25812-5-CIP				

				U.S. PATENT DOCU	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document Kind Code ² (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Retevant Pessages or Retevant Figures Appear
mn	AA	5,948,418		Maes et al.	09/07/1999	
,	AB	5,801,192		Dumas et al.	09/01/1998	
	AC	5,776,441		Scancarella et al.	07/07/1998	
	AD	5,770,697		Ferrari et al.	06/23/1998	
	AE	5,726,040		Ensley et al.	03/10/1998	
	AF_	5,643,949		Van Scott et al.	07/01/1997	
	AG	5,587,396		Smith	12/24/1996	
	AH	5,503,825		Lane	04/02/1996	
$\Box I$	ΑĪ	5,028,695		Eckmayer et al.	07/02/1991	
\Box	AJ	4,381,294		Bouillon et al.	04/26/1983	
	AK	4,323,553		Bouillon et al.	04/06/1982	
MM	AL	4,118,480		Williams	10/03/1978	
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	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Foreign Patent Document				Date of Publication of Pages, Columns, Lines, Where Relevant				
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